

12/30/2018

Print

## Purchasing Receipts

Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200  
Fax (613) 632-5246



PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total	Supplier Name	
PO041984	MES002-V/C	1	1	Net 60	M303B1.000X03.000	303 Bar 1" X 3' : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft				12	12/27/2018	12		S140890	Stock	12/17/2018	\$ 132.10 / ft	13		\$1,607.66	Metaux Solutions	
		2			M304B0.250x0.500	304 Bar .250 X .500 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft				325		325		S140891	Stock	12/17/2018	\$ 4.05 / pcs	13		\$1,316.93	Metaux Solutions	
Total:										337			337								\$2,144.37	

Plex 12/30/2018 12:00 PM dart.Tolls.Andrew



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO041984**

E-MAILED  
DEC 07 2018

**Supplier:** MES002-VC  
Metaux Solutions  
2625 boul Jacques-Cartier Est  
Longueuil  
QC  
J4N 1L7 Canada  
Phone: 800 558 8858  
Fax: 514 633 8044

**PO No:** PO041984  
**PO Date:** 12/7/18  
**Due Date:** 12/21/18  
**Purchase Order Revision:**  
**Revision Date:**  
**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground  
**Pymt Terms:** Net 60  
**Freight Terms:**  
**Special Comments:**

## **Items**

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1 AI		M303B1.000X03.000		303 Bar 1" X 3' : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE receive ft	Firmed	-	12/21/18	12 ft	0 ft	12 ft	\$132.10/ft	\$1,585.20
2 AI		M304B0.250x0.500		304 Bar .250 X .500 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	-	12/21/18	300 pcs	0 pcs	300 pcs	\$4.0521/pcs	\$1,215.63

**Grand Total: \$2,800.83**



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

## PURCHASE ORDER PO041984

### Order Notes

#### Procurement Quality Clauses

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 12/7/18 12:35 PM dart.lavoie.chantal

## Shipping Order

17/12/2018

METAUX SOLUTIONS INC  
2625 BOUL JACQUES CARTIER EST  
LONGUEUIL, QUEBEC  
J4N 1L7  
**Tel. : 450 641-3330**

**Order** : 140446  
**Reference** : 41984  
**Bid** : 30368  
**Ship** : PICK UP / PICK UP

**Customer :** 6323336**Ship To**

DART AEROSPACE LTD  
1270, ABERDEEN STREET  
HAWKESBURY, ONTARIO  
K6A 1K7

Same

**Tel. :** 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N			
SF133	303 FLAT 1 X 3 1 X 12' R/L ***** HT 275070 <i>AT</i>	12.17	<u>12.17</u>	<u>Ø</u>
SF14124HR	304 STAIN FLA .25" X .500" HR 25 X 12' R/L HT 67736108 <i>AT</i>	325	<u>325</u>	<u>Ø</u>

LIVRE AVEC AUTRE COMMANDE  
JP

27/12/18

**Shipping :** \_\_\_\_\_**Package No :** \_\_\_\_\_**Merchandise Received:** \_\_\_\_\_**Ref. :** \_\_\_\_\_

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 02

Certification Date  
14-DEC-2018

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

46052-J

Invoice Number  
T387117

PART NUMBER/NUMÉRO DE PIÈCE

511237

SOLD TO: METAUX SOLUTIONS INC.  
ENDU À:

SHIP TO:  
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1

Description: 303 CD ANN BAR ASTM A582

1 X 3 FLAT X 12' R/L

HEAT: 275070

ITEM: 511237

Line Total: 125 LB

Specifications:

AMS 5640 TYPE 1 V

ASTM A370 17

41L S 852

ASTM A582 12

ASME SA320 15

ASTM A320 17

ASTM A314 15

## CHEMICAL ANALYSIS

C	SI	MN	CR	MO	CU	NI	CO
0.035	0.30	1.72	17.19	0.42	0.44	8.15	0.128
P	S	ZR					
0.031	0.30	0.004					

RCPT: R547775

COUNTRY OF ORIGIN : ITALY

## MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI	ULT TEN KSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	65.0	99.0	42.0	56.0	204

GRAIN SIZE : 5 -

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 02 of 02

Certification Date  
14-DEC-2018

CUSTOMER ORDER NUMBER  
NUMÉRO DE COMMANDE DU CLIENT

Invoice Number  
T387117

46052-J  
PART NUMBER/NUMÉRO DE PIÈCE  
511237

SOLD TO: METAUX SOLUTIONS INC.  
/ENDU À:

SHIP TO:  
EXPÉDIÉ À:

METAUX SOLUTIONS (RIVE-SUD)

2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1L7

2625 BOUL JACQUES CARTIER EST  
LONGUEUIL QC J4N 1

Description: 303 CD ANN BAR ASTM A582  
1 X 3 FLAT X 12' R/L  
HEAT: 275070

ITEM: 511237

Line Total: 125 LB

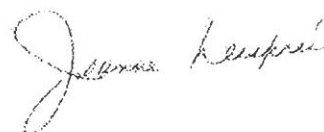
STRAND CAST REDUCTION RATIO 15.9 TO 1  
MATERIAL IS FREE FROM MERCURY CONTAMINATION  
NO WELD REPAIR PERFORMED ON MATERIAL  
THERMAL TREATMENT: OK  
ANN TEMP 1940 DEG F FOR 5 HR / WATER  
MACRO: OK  
MICRO1: OK

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE  
GÉRANT DE L'ASSURANCE QUALITÉ

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303/SS BAR  
(NOTE: AISI 304/316 NOT ACCEPTABLE)

SPECIFICATION: ASTM A582  
PART NUMBER: M303B1.TTT X WWW.WWW  
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
AND "WWW.WWW" = WIDTH IN INCHES  
EG. 0.5" x 3.0" BAR = M303B0.500X03.000

RELEASED  
R 2010-02-02  
MP

B		REFORMAT DWG. ADD SPECS (ZN D8 1).		CP	10 01 05
A		NEW ISSUE		DS	02 05 29
REV		DESCRIPTION		RY	DATE
DESIGN	DART AEROSPACE LTD				
DRAWN	HAWKESBURY, ONTARIO, CANADA				
CHECKED	DRAWING NO. M303B				
MFG. APPR.	SHEET 1 OF 1				
APPROVED	TITLE				
DE APPR.	303 BAR				
DATE	10.01.05				
SCALE NTS					
COPYRIGHT © 2002 BY DART AEROSPACE LTD					

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303B1.000X03.000

PO / BATCH NO.: P0041984/S140890

DATE: 18/12/31

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 1.000"

QUANTITY RECEIVED: 12 ft

THICKNESS RECEIVED: 1.000"

QUANTITY INSPECTED: 12 ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A582
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	MT: 275070
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

<b>QC 18 INSPECTION</b>	<b>ENGINEERING SIGNOFF (if required)</b>
INSPECTED BY: <u>61</u> DATE: <u>18/12/31</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



**BOLLINGHAUS**  
STEEL

Bollinghaus Steel, SA  
DIN EN ISO 9001:2008  
TÜV CERT No. Q1 100 030458

Abschlußprüfzeugnis / Final Test Certificate / Certif. de Qualidade

EN 10204:2004 / 3.1

No.: / Nr.: / No.:  
0000136628

Unsere innere Verweisung / Our Int. Ref. / ref. Int.

5800038278 000010

Datum / Date / Data

19.12.2017

**Spezifikation / Standards / Normas**

TYPE 304/UNS S30400 and TYPE 304/UNS S30403 acc. to ASTM A276/A276M-16a ASTM A182/A182M-16a, ASTM A193/A193M-16, ASTM A479/A479M-16a, ASTM A320/A320M-16a, ASTM A314-15, ASTM A262-15 Pract. E, AMS QQ-S-763D, AMS 5630J, AMS 5947K, ASME SA479/SA479M, ASME SA276, ASME SA182/182M, ASME SA 193/SA193M, ASME SA320/SA320M, NACE MR0175-2015, execution as per ASTM A484/A484M-16.

Kunde / Customer / Cliente

Endgültiger Kunde / Final Customer / Cliente Final

Bestell Nr./Order Nr./Enc.Nr. c110766

Bestell Nr./Order Nr./Enc.Nr. c110766.1

Produktgruppe / Product Group / Grupo Produto

AISI 304L FLAT 1/4 X 1/2"

Gewicht / Weight / Peso

1.059 lb

Bunde / Bundle / Atados

01

Werkstoff-Nr.  
Material-no.  
Qualidade 1.4307

Werkstoff-Normbezeichnung / Material standard grade / Norma do material

X 2 CrNi 18-9

**Beschreibung / Description / Descrição**

Stainless steel flat bars, hot rolled, heat treated, straightened and pickled  
US DFAR 252.225-7009: MELT SOURCE: France / MFG: Portugal.

Schmelzen Nr.  
Cast nr. / Fusão nr.

67736138

**Chemische Analyse in % / Chemical composition in % / Análise química em %**

EAF+AOD

C	0.018	Si	0.525	Mn	1.154	P	0.029	S	0.025	Cr	18.127	Ni	8.045
Mo	0.376	Co	0.117	Cu	0.406	N	0.080	Ti	0.002	-	-	-	-

Proben Nr.  
Test no.  
Amostra no.

4036951.01.01

**ASTM E399**

Kerbschlagarbeit  
Impact Test  
Resiliência

{Charpy V}

[J]

Streckgrenze  
Yield point  
Tensão limite

Rp 0,2 %

[Ksi]

Dehngrenze  
1% point  
Limite de extensão

Rp 1,0 %

[Ksi]

**ASTM A370**

Zugfestigkeit  
Tensile strength  
Tensão de ruptura

Rm

[Ksi]

Dehnung  
Elongation  
Alongamento

A5 4D

[%]

Einengung  
Reduction of area  
Coef. Estricho

Z

[%]

Visuelle Kontrolle  
Visual inspection  
Inspeção visual

Ok

**ASTM E10**

Härte  
Hardness  
Dureza

195

[HB]

**ASTM A262 Practice E**

Korrosionsbeständigkeit  
IC Test

Corrosão Intermetálica

Ok

Wärmebehandlung  
Heat treatment  
Tratamento térmico

Annealed/Quenched 1900 °F (1050 °C)

(water quenched)

**ASTM A484**

Maßkontrolle  
Dimensional inspection  
Inspeção dimensional

Ok

**ASTM E112**

Korngröße  
Grain size  
Tamanho de grão

9

Multi-optische Untersuchung  
Macrographic test

Material free from  
segregation defects.

Ok

Abschlußprüfzeugnis  
Authorized Inspection Representative  
Inspector de Qualidade

396

Vasco Ferreira (Q - VF)

Bollinghaus Steel, SA

Bemerkungen / Remarks / Observações  
Country of origin: Portugal, No weld repair done.  
Material is free of mercury and radiation contamination.

Hiermit bestätigen wir, dass das Material der oben genannten Spezifikation entspricht.  
We confirm that this material meets the specification according the mentioned standards.  
Confirmamos que este material respeta as especificações de acordo com as normas referidas.

079200

# SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE  
(NOTE-AISI 303 NOT ACCEPTABLE)

△ SPECIFICATION:

PART NUMBER:

ASTM A276 OR ASTM A240  
M304B | T.TTT | X | WWW.WWW |  
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES  
AND "WWW.WWW" = WIDTH IN INCHES

EG. 0.5" x 3.0" BAR = M304B0.500X03.000  
EG. 0.5" x 12.0" PLATE = M304B0.500X12.000



RELEASED  
2010-11-30

C	ADDED PLATE TO PURCHASE MATERIAL. ADDED PLATE RELATED SPECIFICATIONS AND TITLES TO BE ADDED TITLE FROM "304/316 BAR" TO "304/316 BAR/PLATE"	MB	10.11.25
B	REFORMAT DWG. ADD SPECS (ZN D6-1). REF PAR 08-020A	CP	09.07.15
A	NEW ISSUE	PH	05.06.10
REV	DESCRIPTION	BY	DATE
DESIGN	PH		
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.11.25		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M304B			
SHEET 1 OF 1			
REV. C			
TITLE			
304/316 BAR/PLATE			
SCALE			
NTS			
COPYRIGHT © 2008 BY DART AEROSPACE LTD ALL RIGHTS RESERVED. NO PART OF THIS DRAWING MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM DART AEROSPACE LTD.			

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M304B0.250x0.500

PO / BATCH NO.: P0041981/5140891

DATE: 18/12/31

MATERIAL CERT REC'D: Yes

THICKNESS ORDERED: 0.250"

QUANTITY RECEIVED: 325ft

THICKNESS RECEIVED: 0.250"

QUANTITY INSPECTED: 325ft

SHEET SIZE ORDERED: —

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	ASTM A276
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	HT: 67736108
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 61</u> DATE: <u>18/12/31</u>	SIGNED OFF BY: _____ DATE: _____

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